

## CLAIMS

1. Insulin-containing medicine for peroral use containing insulin and auxiliary substance, characterized in the fact that it contains insulin immobilized on erythrocytes of fresh mammal blood in the presence of stitching agent in proportion, in mass %:

5	insulin	5-10
	erythrocytes excreted	
	from fresh mammal blood	100

and represents a lyophilized form with the content 1250-2000E of insulin on 1g of dry mass.

10 2. Medicine on item 1, distinguished for the fact that it contains gelatin as an auxiliary substance.

Sub A1 3. Medicine on any of the items 1 or 2, characterized in the fact that the content of auxiliary substance makes 1-2,5 mass%.

15 4. Medicine on any of the items 1-3, characterized in the fact that erythrocytes excreted from fresh pig, livestock or horse blood can be used as erythrocytes.

5. Medicine on any of the items 1-3, characterized in the fact that it contains erythrocytes excreted from fresh human blood.

6. Medicine on any of the items 1-5, characterized in the fact that it contains glutarite dialdehyde.

20 7. The method for derivation of insulin-containing medicine for peroral use, including the excretion of erythrocytes, from fresh mammal blood, their incubation with insulin in the presence of stitching agent, washing of immobilized insulin with physiological solution, adding of stabilizer and lyophilization, distinguished for the fact that the incubation of erythrocytes with insulin is carried out in proportion insulin: erythrocytes

under the temperature 4-8°C within 4-6 hours, along with this, in the process of excretion of erythrocytes the blood is influenced by centrifugal forces with the size 350-1100\*g within 15-30 minutes, and during insulin incubation with erythrocytes pendular rocking of composition with frequency 0,1-0,5Hz is performed, moreover, washing of immobilized insulin is carried out in several cycles with centrifugal forces being in effect during each of the cycles with the size 350-1100\*g within 0,5-10,0 minutes.

8. Method on item 7, characterized in the fact that gelatin is used as a stabilizer.

9. Method on item 8, characterized in the fact that gelatin in the quantity 1-2,5 mass% is used as a stabilizer.

10. Method on any of the items 7-9, characterized in the fact that erythrocytes excreted from fresh pig, livestock or horse blood are used as erythrocytes.

11. Method on any of the items 7-9, characterized in the fact that it contains erythrocytes excreted from fresh human blood.

12. Method on any of the items 7-11, characterized in the fact that it contains glutarite dialdehyde as a stitching agent.

add C27